

1 1. (Twice Amended) A [head for use in a] magnetic recording system including a
2 head, a magnetic media with perpendicular magnetic polarity transitions written thereon
3 and circuitry adapted to receive a readback pulse with a substantially Lorentzian pulse
4 shape from said head, said head for transferring data between the magnetic media and an
5 exterior environment, said head comprising:
6 a write element for inducing said perpendicular magnetic polarity transitions into
7 a surface of said magnetic media during a write operation;
8 a yoke disposed within said write element, said yoke having a read gap for
9 sensing said perpendicular magnetic polarity transitions; and
10 a magnetoresistive read element mounted in a flux flow path of said yoke,
11 wherein said magnetoresistive read element produces a readback pulse having a
12 substantially Lorentzian pulse shape in response to one of said perpendicular magnetic
13 polarity transitions.

Claims 2-16, line 1, change "The head" to --The magnetic recording system--.